

AN ENVIRONMENTAL ANALYTICAL LABORATORY

COMPREHENSIVE VALIDATION PACKAGE

ATL Applications INVENTORY SHEET WORK ORDER # 0909547D

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Completed by:		ii ii
Kara McKiernan/ Docume	nt Control	10/15/09
(Signature) (Print Name & T	itle)	(Date)



0909547D **WORK ORDER #:**

Work Order Summary

CLIENT:

Mr. Taeko Minegishi

BILL TO:

Accounts Payable

Environmental Health & Engineering,

Environmental Health & Engineering,

117 Fourth Avenue

117 Fourth Avenue Needham, MA 02494

Needham, MA 02494

P.O. # 16512

FAX:

PHONE:

800-825-5343

DATE RECEIVED:

781-247-4305

PROJECT#

16512

DATE COMPLETED:

09/25/2009 10/14/2009

CONTACT:

Ausha Scott

FRACTION #	NAME	TEST
48A	106838	ATL Applications
49A	106839	ATL Applications
50A	106840	ATL Applications
50AA	106840 Lab Duplicate	ATL Applications
51A	106841	ATL Applications
52A	106842	ATL Applications
53A	106843	ATL Applications
54A	106867	ATL Applications
55A	106868	ATL Applications
56A	106869	ATL Applications
56AA	106869 Lab Duplicate	ATL Applications
57A	106870	ATL Applications
58A	106871	ATL Applications
59A	106872	ATL Applications
60A	106881	ATL Applications
61A	106885	ATL Applications
62A	Lab Blank	ATL Applications
62B	Lab Blank	ATL Applications

Continued on next page



WORK ORDER #: 0909547D

Work Order Summary

CLIENT:

Mr. Taeko Minegishi

BILL TO:

Accounts Payable

Environmental Health & Engineering,

Environmental Health & Engineering, Inc.

117 Fourth Avenue

117 Fourth Avenue

Needham, MA 02494

Needham, MA 02494

PHONE:

800-825-5343

P.O. # 16512

FAX:

63A

781-247-4305

PROJECT#

16512

DATE RECEIVED:

09/25/2009

CONTACT:

Ausha Scott

DATE COMPLETED:

10/14/2009

FRACTION #

NAME CCV

TEST

ATL Applications

CERTIFIED BY:

Linda d. Truman

Laboratory Director

10/14/09

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.



LABORATORY NARRATIVE Ozone by Radiello 172 Environmental Health & Engineering, Inc. Workorder# 0909547D

Fourteen Radiello 172 (Ozone) samples were received on September 25, 2009. The procedure involves reaction of 4-pyridylaldehyde with 3-methyl-2-benzothiazolinone hydrazone to yield the corresponding azide. The absorbance is then measured at 430 nm using a spectrophotometer. Results are reported in uG and uG/m3.

Sampling rate of 24.6 mL/min was provided by the manufacturer.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Results were calculated based on 25 deg C without temperature correction. The actual exposure time was used to calculate sample concentrations and reporting limits.

An exposure time of 20160 minutes was used for the QC samples.

All media used for the sampling were supplied by the client. Blank subtraction was not performed on the sample results since the media used for Method Blanks may be from a different lot than the media used for the samples.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicate as follows:

- B Compound present in laboratory blank greater than reporting limit.
- J Estimated value.
- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the detection limit.
- M Reported value may be biased due to apparent matrix interferences.
- N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Sample Results and Raw Data

ATL Application # 62 for RAD 172 (Ozone) AIR TOXICS LTD.

Spectrophotometer

ř	%Rec					:		
N N	8	1.3	0.64	1.00	9/28/2009	W	0909547D-62B	Method Blank
B	8	1.3	0.64	1.00	9/28/2009	¥	0909547D-62A	Method Blank
8	8	13	0.64	1.00	9/28/2009	¥	0909547D-61A	106885
B	8	13	0.64	1.00	9/28/2009	*	0909547D-60A	106881
N	8	1.3	0.64	1.00	9/28/2009	A	0909547D-59A	106872
B	8	1.3	0.64	1.00	9/28/2009	9/23/2009	0909547D-58A	106871
2.7	14	1.3	0.64	1.00	9/28/2009	9/23/2009	0909547D-57A	106870
25	3	1.3	0.64	1.00	9/28/2009	9/23/2009	0909547D-56AA	106869 Lab Duplicate
25	12	1.3	0.64	1.00	9/28/2009	9/23/2009	0909547D-56A	106869
22	Ē	1.3	0.64	1.00	9/28/2009	9/23/2009	0909547D-55A	106868
21	1.0	1.3	0.64	1.00	9/28/2009	9/23/2009	0909547D-54A	106867
B	8	1.3	0.64	1.00	9/28/2009	¥	0909547D-53A	106843
8	8	1.3	0.64	1.00	9/28/2009	9/23/2009	0909547D-52A	106842
S	8	1.3	0.64	1.00	9/28/2009	9/23/2009	0909547D-51A	106841
30	5	2.6	1.3	2.00	9/28/2009	9/23/2009	0909547D-50AA	106840 Lab Duplicate
29	#	2.6	13	2.00	9/28/2009	9/23/2009	0909547D-50A	106840
8	8	1.3	0.64	1.00	9/28/2009	9/23/2009	0909547D-49A	106839
N	N	1.3	0.64	1.00	9/28/2009	9/23/2009	0909547D-48A	106838
Amount (ug/m3)	Amount (ug)	Reporting. Limit (ug/m3)	Reporting. Limit (ug)	Dilution Factor	Analysis Date	Collection Date	Lab Sample I.D.	Sample I.D.

COMMENTS: 1. NA=Not Applicable

2. ND=Not Detected

3. Exposure time of 20160 minutes was assumed for the QC samples.

4. Background subtraction not performed.

		Ž		78	4							ĬĀ	QA	9A	Š	A/A	6AA	64	5A	\$	Ä	24	14	DOAA	OA.	19A	18A						
																												LabSampleID	Corrected Q	Date of Analysis:	Volume (mL)	Sampling T (deg C)	Sampling Rate (mL/min))
		CCA A	Method Blank	Method Blank	Method Blank							106885	106881	106872	106871	106870	106869 Lab Duplicate	106869	106868	106867	106843	106842	106841	106840 Lab Duplicate	106840	106839	106838	Client	24.6	9/28/2009			24
		NA		×	A							*	¥	¥	9/23/2009	9/23/2009	9/23/2009	9/23/2009	9/23/2009	9/23/2009	*	9/23/2009	9/23/2009	9/23/2009	9/23/2009	9/23/2009	9/23/2009	Date of Collection	Ozone taking into account Temp	9	5 Typically 5 for Ozone	25 Typically 25	24.6 Typically 24.6 for Ozone
		0.29		0.019	0.017							0.04	0.018	0.011	0.055	0.158	1.433	1.419	0.129	0.121	0.011	0.017	0.029	0.838	0.827	0.027	0.030	Abs	account Temp		ne)zone
20160	QC Duration	20160		20160	20160							20160	20160	20160	20160	20160	20160	20160	20160	20160	20160	20160	20160	20160	20160	20160	20160	Duration (min)	•				
	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	1.00	1.00	DF					
2.5536	CCV Spike Amt	2.522988842	-0.040624154	0.127336697	0.109656608	-0.040624154	-0.040624154	-0.040624154	-0.040624154	-0.040624154	-0.040624154	0.312977638	0.118496652	0.056616339	0.445578311	1.356102926	12.62716006	12.50339944	1.099741627	1.029021268	0.056616339	0.109656608	0.215737145	14.7346668	14.54018581	0.198057056	0.22457719	Ozone Conc (ug)			Slope	(Abs-Y-int)xDF	
		5.087	#DIV/0!	0.257	0.221	#DIV/OI	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.631	0.239	0.114	0.898	2.734	25.461	25.212	2218	2.075	0.114	0.221	0.435	29.711	29.319	0.399	0.453	Conc (ug/m3)			Q x Duration	Conc (ug) x 1000000	
		0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638	1.277	1.277	0.638	0.638	RL(ug)				Low PointxDF	

1.287	#DIV/0!	1.287	1.287	#DIV/0!	#DIV/0i	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	1.287	1.287	1.287	1.287	1.287	1.287	1287	1.287	1.287	1.287	1.287	1.287	2575	2575	1.287	1.287	KL (ug/m3)	!			
2.522	ND	N	ND	ND	8	ND	ND	N	N	N	N	N	B	1.356	12.62	12.50	1.099	1.029	N	N	ND	14.7	14.54	ND	ND	Result (ug)	•			
2.522988842		ND	N							ND	ND	ND	ND	1.356102926	12.62716006	12.50339944	1.099741627	1.029021268	ND	ND	ND	14.7346668	14.54018581	ND	ND				ə	
5.087327481	#DIV/0!			#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!					2.73443131	25.46126932	25.21171973	2.217507152	2.074907384				29.71082317	29.31867381			Result (ug/m3)				
1 99	%Rec													1	2	ω	2	4				7	1			%Rec				
																		hand entry		114	57	22.8	11.4	5.7	0	ug/mL	4-PA			
																										ug Ozone		ug/ml*0.224*0.5mL	4-PA	
																				12.768	6.384	2.5536	1.2768	0.6384	0	<u>a.</u>		1*0.5mL		
																				1.447	0.731	0.292	0.152	0.073	0	absorbance				
																							R	*	Si					
																							72	Ä	ope					
																						Section 201 for SECT AND CALL BEING TO THE SECTION OF SECTION	0.999963407	0.004595469	0.113121598					

QC Results and Raw Data

Spectrophotometer Logbook

@Air Toxics Ltd.

Logbook#: 1875

Work Order: 0909547D

Analyst: M.SKIdmore

Date: 9/28/09

Method: Rad 172

Wavelength: 430 nm

Standard ID	Concentration	ABS
	(Concentration of 4-PA)	
Level 1 1858-55-E	5,7 mg/mL	0.073
Level 2 - D	11.4 mg/mL	0,152
Level 3 -C	22,8 ug/mL	0,292
Level 4 -B	57 mg/mL	0,731
Level 5	114 ug/mL	1,447
ICV 1858-57	22,8 Mg/ML	0,273

ICV % Recovery = 93%

Fraction	Dilution	ABS	Sample ID	Sample Volume	Comments
48A	1,00	0,030	106838	5,0 ml	
494	1		106839		
50A	2.00	0,027	106840		
SOAA	1	0.838	106840		Marie Control of the
SIA	1,00	0,029	106841		
52A		0.017	106842		
53A		0,011	106873		
SHA		0,121	106867		
55A		0.129	106868		Mark 1 (1994) 11
56A		1.419	106869		
56AA		1,433	106869		
57A		0,158	106870		
58 A		0,055	106871		Harrison VIII.
59A	g.t	0.011	106872		
60A		01018	106881		Allegan at the section of the section of
617		0,040	106885		
BIK		0,017	NA		
BILC		0,019			
LUS		0.264			
CCV		0,290	U		
	0				
				M	15 10/5/09

Procedure:

Milo RD

0/5/04 Date

Spectrophotometer Standard Preparation Log	@Air Toxics Ltd.	Log Book #: <u>1858</u>
Standard ID: 1858-54 Project: Rad 172 MBTH Solution	Solvent:	N/A
Analyst: M, Skidwore Preparation Date: 2/28/0 53 9/28/09 Expiration Date: 9/28/00		
Procedure/Comments: Dissolve 2.5 g o hydrazone hydrochloride hydrate into 500 mL DI H20 and go	F 3-methy1-2-	- benzothiazolinom 06, located in ERIA
into 500 ML DI Hao and go	1d 2,5 ml of	concentrated
sulfuric acid		
		1
		9/28/19
		1,50,0
Page 54 Signed Date	Reviewed	10/5/09 Date Rev. 8/97

Spectrophotometer Standard Preparation Log	@Air Toxics Ltd.	Log Book #: 1858
Standard ID: 1858-55 Project: Rad 172 Calibration Solution Analyst: M. Ski dwore Preparation Date: 9/28/09 Expiration Date: 9/28/09	Solvent:Solvent Lot #:	N/A
Procedure/Comments:	(1)	
Dissolve 20 μl of 4-Pyridine-carboxaldehyde, 97% (1 D.I. H ₂ O. From this solution prepare dilutions at 1:2, 114 μg/mL.		
1:2) 250 μl Pyridine solution with 250 μl of D.I. H ₂ O	$= 57 \mu g/mL.$	3
1:5) 100 μl Pyridine solution with 400 μl of D.I. H ₂ O	$0 = 22.8 \mu g/mL$.	X
1:10) 100 μ l Pyridine solution with 900 μ l of D.I. H ₂ 0	$O = 11.4 \mu g/mL$	<u> </u>
1:20) 250 μl Pyridine 1:10 solution with 250 μl of D. (Then remove 250 μl of 1:10 solution to yield a fin	I. $H_2O = 5.7 \mu g/mL$ nal volume of 0.5 mL)	
Then add 4.5 mL of MBTH solution to each level, sti with parafilm). Then read absorbance at 430 nm.	ir and let stand for 1 hou	(cover
Note: 1 μg of 4-pyridylaldehyde = 0.224 μg of ozone	o. MJS 9/28/09	,
		×
	-	
	2 4	THE PROPERTY OF THE PARTY OF TH
	1	;1
		,
	Als Als	9/0CV
Page 55 Signed Date	Reviewed	10/5/09 Date Rev. 8/97

Spectrophotometer Standard Freparation Log	WAIT Toxics Ltd. Log Book #: 1858
Standard ID: <u>1858-57</u>	Solvent: DI Hw
Project: ICV RAD 172	Solvent Lot #: ~A
Analyst:	
Preparation Date: 9/28/07 Expiration Date: 9/28/03	
Expiration Date: 4/28/01	
Procedure/Comments:	
Dissolve 20 μl of 4-Pyridine-carboxaldehyde, 97% (14° D.I. H ₂ O. Stock Solution = 114 μg/mL. From this solu	76-1103, located F22H) in 200mL tion prepare a dilution at:
1:5) 100 μ l Pyridine solution with 400 μ l of D.I. H ₂ O =	= 22.8 μg/mL.
Then add 4.5 mL of MBTH solution to each level, stir a with parafilm). Then read absorbance at 430 nm.	and let stand for 1 hour (cover
Note: 1 μ g of 4-pyridylaldehyde = 0.224 μ g of ozone.	
	4 4/29/05
Molther 9/21/09	10/5/09
Page 57 Signed Date	Reviewed Date Rev. 8/97

Shipping/ Receiving Documents



180 Blue Ravine Road, Suite B Folsom, CA 95630

Phone (916) 985-1000 FAX (916) 985-1020 Hours 8:00 A.M. to 6:00 P.M. Pacific

COMPANY:	Environmental Health & Engineering, Inc.	
ATTENTION:	Mr. Taeko Minegishi	
FAX #:	781-247-4305	,
FROM:	Sample Receiving	
Workorder #:	0909547D	
# of pages (Including Cover):	4	

10/15/2009

Thank you for selecting Air Toxics Ltd. We have received your samples and have found no discrepancies. In order to expedite analysis and reporting, please review the attached information for accuracy. Corrections can be faxed to **Ausha Scott at 916-985-1020.**

ATL will proceed with the analysis as specified on the Chain of Custody and Sample Login page.

Environmental Health & Engineering, Inc.

CHAIN OF CUSTODY FORM

DATE: 4/24/09

FROM: Environmental Health and Engineering, Inc.
117 Fourth Avenue

Needham MA 02494-2725

1	R. Carrette				Nobullalli, IVIA	1 02454-2725		
то:А	E	loxics			ase send invoice			
				Pie	ase send reports	to ATTN: Da	ta Coordinator	
In all correspo	ndence r	egarding th	is matter, plea	ase refer to EH&	E Project #	6512		
The cost of this	s analysi	s will be co	vered by EH&	E Purchase Ord	er#	16512		
For EH & E Da	ata Coord	dinator - UF	RGENT DATA	B				
SAMPLE ID	SAMP	LE TYPE	А	NALYTICAL ME	THOD/NUMBER	STAFT	OTHER:Time/Date/Vol.	35
106838	AR F	ASSIVE	OZONE	Analysis		9/9/09	9/23/09	7
106839				4		"/	/	
106840								
106841								
106842							V	
106843						V	\$ / 1	
106867					-	1/9/09	9/23/0	9
106868						///	1	
106869								
106870								
106871			Ú.			/	V	
106872				i i		\bigvee	6	
106881		,		/			Ø	
106885	\vee		V				Ø	
					v		,	
							Felex	
Special instru	ctions:						CUSTODY SEAL INTA	CT
			turn around tin		by — date/time		Other MONE TEMP	2
			s 781-247-430 SAMPLES				w@ahaina aam	
				ntmaa	ronic transfer - d	atacoordinato	weneinc.com	
Each signat	ory ple	ease retu	rn øne cop	v of this forn	n to the abov	e address		
					alth & Engineerin		ate: 9/24/09	
Received by: _					A+1		ate: 4/20/29	
			- 10				ate:	
							ate:	
							ate:	
Received by: _	-						ate:	
ab Data					alth & Engineerir		ate:	
					anii a migiiloolii		ace 4 of 4	

61A



SAMPLE RECEIPT SUMMARY

WORKORDER 0909547D

Client Date Promised: 10/06/09 11:59 pm

Mr. Taeko Minegishi
Environmental Health & 800-825-5343 Date Received: 9/25/09

Engineering, Inc. Fax PO#: 16512
117 Fourth Avenue Project#: 16512

Sales Rep: TL Total \$: \$ 770.00 Logged By: MG

Sample # Fraction Analysis Collected Amount\$ 48A 106838 **ATL Applications** 9/23/2009 \$50.00 49A 106839 **ATL Applications** 9/23/2009 \$50.00 50A 106840 **ATL Applications** 9/23/2009 \$50.00 50AA 106840 Lab Duplicate **ATL Applications** 9/23/2009 \$0.00 51A 106841 **ATL Applications** 9/23/2009 \$50.00 52A 106842 **ATL Applications** 9/23/2009 \$50.00 53A 106843 **ATL Applications** NA \$50.00 54A 106867 **ATL Applications** 9/23/2009 \$50.00 55A 106868 **ATL Applications** 9/23/2009 \$50.00 56A 106869 **ATL Applications** 9/23/2009 \$50.00 56AA 106869 Lab Duplicate **ATL Applications** 9/23/2009 \$0.00 57A 106870 9/23/2009 \$50.00 **ATL Applications** 58A 106871 **ATL Applications** 9/23/2009 \$50.00 59A 106872 **ATL Applications** NA \$50.00 60A 106881 **ATL Applications** NA \$50.00 106885 61A **ATL Applications** NA \$50.00 62A Lab Blank NA \$0.00 **ATL Applications** 62B Lab Blank **ATL Applications** NA \$0.00 63A CCV NA **ATL Applications** \$0.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.

Atlas Project Name/Profile#: CPSC Indoor Air Monitoring/13297

BILL TO: Accounts Payable

Environmental Health & Engineering, Inc.

117 Fourth Avenue

Needham, MA 02494

Analysis Code: Other GC

TERMS:

Reporting Method: ATL Application #62 Ozone-Radiello 172



SAMPLE RECEIPT SUMMARY Continued

Client

Phone

Date Promised:

Mr. Taeko Minegishi

Date Completed: 10/14/09

Environmental Health &

800-825-5343

Date Received: 9/25/09

Engineering, Inc. 117 Fourth Avenue

Fax

PO#: 16512

781-247-4305 Needham, MA 02494

Project#: 16512

Sales Rep:

Total \$: \$ 770.00

Logged By: MG

Fraction

Sample #

Analysis

Collected

Amount\$

Misc. Charges eCVP (14) @ \$5.00 each.

\$70.00

Note:

Samples received after 3 P.M. PST are considered to be received on the following work day.

Atlas Project Name/Profile#: CPSC Indoor Air Monitoring/13297

BILL TO:

Accounts Payable

Environmental Health & Engineering, Inc.

117 Fourth Avenue

Needham, MA 02494

Analysis Code: Other GC

TERMS:

Reporting Method: ATL Application #62 Ozone-Radiello 172

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

Other Records



Method: ATL Application #62 Ozone-Radiello 172

CAS Number	Compound	Rpt. Limit (ug)	(E)
10028-15-6	Ozone	1.0	

@Air Toxics Ltd.

		DATA REVIEW CHECKLIST Work Order #: 00015470			
$\mathbf{A_i}$	$A_2 R T M Q$				
		Analysis/Reporting vs. Project Profile/SOP requirements checked (i.e. 100% Dups, J-Flag to MDL, etc)			
		The final report has the correct reporting list, special units, and header info. Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct)			
	Meth 0/1/20/ 0	Sample Discrepancy Report (SDR) is completed			
		Corrective Action issued - #			
		Unusual circumstances have been documented in the notes section below			
	LUMEN validation report present and initialed CIRCLE (YES / NO)				
		Lab Blank, CCV, LCS and DUP met QC criteria			
		Hold time is met for all samples			
	E 0 149 0	Appropriate data qualifier flags are applied			
_		Manual integrations for samples and QC are properly documented			
		Samples analyzed within the project or method specific clock			
		Retention times have been verified Appropriate ICAL(s) included			
		At least one result per sample is verified against the target quant sheets/raw data			
		Production and angle quality and and			
		Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can			
		pressurization(s)) Correct amount of sample analyzed (i.e. sample not over-diluted)			
	/gh 🗆	Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg)			
	也	TICs resemble reference spectra			
	MDY 0	TICs between duplicate samples are consistent			
		Checked samples for trends (i.e. Influent vs. Effluent, Field Dups, Field/Trip Blank, etc.)			
		Data for multiple analyses of sample(s) has been evaluated for comparability of results			
		Special units for all samples in the final report are correctly calculated Manually entered results checked (i.e. TPH/NMOC)			
		Chain of Custody verified for any special comments (i.e. different compounds/RLs, action levels)			
		Chain of Custody scanned correctly			
		Verify sample id's vs. chain of custody			
		Date MDL(s) performed per instrument(s) 9/22/09			
	□ 19 1^ □ 19 1^	Samples pressurized w/ appropriate gas (N ₂ or He) Cited pressurized w/ appropriate gas (N ₂ or He) Cited pressure consistent with conjugate and (GL we 11)			
	0 BA	Final pressure consistent with canister size (6L vs. 1L) Verify receipt pressures			
	AG 0	Verify canister ID #'s			
_	9 9	Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)			
2000	9	MDL date(s) present for all instruments utilized			
	0 0 40 0	Client LUMEN report reviewed for accuracy and completeness			
Notes	to include: noting so	imples with QA/QC problems, Blanks with positive hits, narratives, etc.)			
A/R:	(to include, noting su	imples with QAIQC problems, Blanks with positive hits, harratives, etc.)			
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	Analytical Review/Date				
A_1 :		R: Male 1902 - 10/14/164			
A ₂ :		T:			

Note (1): Please check all the appropriate boxes. Indicate "NA" for any statement that does not apply. Note (2): Management reviewer and reporting reviewer must be separate individuals. Rev. 02/20/09